SEQUENCE LISTING

```
<110> RATAIN, MARK J.
       LIU, WANQING
       INNOCENTI, FEDERICO
 <120> POLYMORPHISMS IN THE EPIDERMAL GROWTH FACTOR RECEPTOR
       GENE PROMOTER
 <130> ARCD:404WO
 <140> UNKNOWN
 <141> 2005-03-01
 <150> 60/549,069
 <151> 2004-03-01
 <160> 38
<170> PatentIn Ver. 2.1
 <210> 1
 <211> 525
 <212> DNA
 <213> Homo sapiens
 <400> 1
 gaaattaact cctcagggca cccgctcccc tcccatgcgc cgccccactc ccgccggaga 60
 ctaggtcccg cgggggccac cgctgtccac cgcctccggc ggccgctggc cttgggtccc 120
 cgctgctggt tctcctcct cctcctcgca ttctcctcct cctctgctcc tcccgatccc 180
 tecteegeeg cetggteect cetecteeg cetgeetee eegegeeteg geeegegega 240
 gctagacgtc cgggcagcc ccggcgcagc gcggccgcag cagcctccgc cccccgcacg 300
 gtgtgagege cegaegegge egaggeggee ggagteeega getageeeeg geggeegeeg 360
 ccgcccagac cggacgacag gccacctcgt cggcgtccgc ccgagtcccc gcctcgccgc 420
 caacgccaca accaccgcgc acggccccct gactccgtcc agtattgatc gggagagccg 480
                                                                   525
 gagcgagete tteggggage agegatgega ceeteeggga eggee
 <210> 2
 <211> 4990
 <212> DNA
 <213> Homo sapiens
 <400> 2
 ctccacagag gctgtgagct agagccctaa ctgtgcaggg ccctaactat gccaggctac 60
 ttatctctct taagaggact tcattagtgc ctgctcggcc atacagtttt ttacttacca 120
 agtaacacag ttatcagcac actccaggta ctagccaagg actacaaaat caacgtgaat 180
 gtcagctttt gtatcaaaag ctcaaaggag aaactcaaac tttacataga tgtcccatga 240
 agatgttcag caaacccatt cttctctgtt ccctggaatc catcccagta ttgtgctatg 300
 tgtgtgtcta gtaattcttt acaaaaagct ctgtttcttg tgatgctatc agatcacatt 360
 gaagaatata caagccgtac tatgaaggct gttgtctcat atagtcctaa cgtagtgaga 420
 actgatgttc ttacatgctg tctttttggg cactcaaaga aattcctgta cagtcttaca 480
 aatcagttgt agcttaaatt gatttgtgtt gtgacttgta cacacaggtc acattccctt 540
 gacagaaaat atagtttaaa accaaatttg cagcccttgt taagtgaatg cacaggactt 600
 tattqtattc aqqtctttta ttgtaagact cactcctgtc ttcattttat gttccactgt 660
 tgtgcttccc atttgccttt ctctagtttt gttttctgtg tttctacgga ctgctctcag 720
 cccaggtgtg caggaagcac acacatgcct gcagagcctt catggcctct gcattcaggg 780
 catgacttca acgcacagtg gctgtactga tttgttaaaa caaaggaaca gattacttct 840
 cctaattcac agggaagttc caggttgtgc gggcagtgag cagacctgtg tctgtctgcg 900
 cttqccctgg tgaaaaaccc caccgttcag gctgcagggt gcgagaccca ggcacaaaca 960
 ttttgctgga tgaggaggaa agatgtaagg ttgctccct tcagagacag caaagggcag 1020
 gtctgtagct tcacttactt caggattgtg atttttgaca gagccgagag atcagggttg 1080
  ttgaaccagg cctgaaggtc ctagtgaatc tcgtgaagag aggaggggtc tggctgtaac 1140
```

						1000
atggacctag	aggacatttt	tactgcagga	gaaggaacag	tggggatggg	graderege	T500
caaaggaata	tagctcaagt	tcctgcagcc	caaaaaagct	cagtttcttt	tggccaaagc	1260
ttccgcgagt	ttccctaaca	tttctcctqc	gggagctaca	agagcagtag	gacacttage	1320
atatataaaa	acceptage	aaatatttat	gtcaagcctt	tattccaaca	acttcacttt	1380
Ciciciaaaa	geacetteac	ggergerege	gecaageeee	- been been been been been been been bee	Secondario	1440
tgcgaagtaa	tgtgcttcac	acattggctt	caaagtaccc	arggerggri	gcaacaaca	1440
ttaaggaggc	ctgtctctgc	acccggagtt	gggtgccctc	atttcagatg	atttcgaggg	1500
tgcttgacaa	gatctgaagg	accctcggac	tttagagcac	cacctcggac	gcctggcacc	1560
catacaacaa	agacacaaca	acctcctcaq	ctgccaggcc	agcctctgat	ccccgagagg	1620
atagaataat	222000220	adatadaaa	ccgaataaag	gagagttt	cccatcaata	1680
greecgrage	getgeagggg	aggegggae	cegaacaaag	bassastaat	agaagtttag	1740
ccattatccg	acgetggete.	taaggetegg	ccagtctgtc	Ladagerggr	acaagurugu	1/40
tttgtaaaac	aaaagaaggg	aaagggggaa	ggggaccctg	gcacagattt	ggctcgacct	1800
ggacataggc	tgggcctgca	agtccgcggg	gaccgggtcc	agaggggcag	tgctgggaac	1860
acceptatea	gaaattaact	cctcagggca	cccgctcccc	tcccatqcqc	cgccccactc	1920
acacacaca	ctadatacca	caaaaaaccac	cgctgtccac	cacctccaac	aaccactaac	1980
ccgccggaga	ccaggeeeeg	tataataaat	agtagtaga	ttataataat	ggtgtgatga	2040
cttgggtccc	egetgetggt	EGLEGELEGEL	cctcctcgca	LLCLCCLCCL	detetgetee	2040
tcccgatccc	tcctccgccg	cctggtccct	cctcctcccg	ccctgcctcc	ccgcgcctcg	2100
gcccgcgcga	gctagacgtc	cgggcagccc	ccggcgcagc	gcggccgcag	cagcctccgc	2160
cccccacaca	atataaacac	ccgacgcggc	cgaggcggcc	ggagtcccga	gctagccccg	2220
acacacaca	acadedaaa.	cadacdacad	gccacctcgt	caacaticcac	ccaaatcccc	2280
geggeegeeg	cogocoagae	cggacgacag	3000000050	gagagagaga	agtattgatg	2340
geetegeege	caacgccaca	accaccycyc	acggccccct	gacteegtee	agtattgatt	2340
gggagagccg	gagcgagctc	ttcggggagc	agcgatgcga	ccctccggga	cggccggggc	2400
agcgctcctg	gcgctgctgg	ctgcgctctg	cccggcgagt	cgggctctgg	aggaaaagaa	2460
aggtaaggg	atateteace	aactcccaca	ccgcccccgg	atcqcqcccc	ggaccccgca	2520
aggeaaggg	addadasada	acacaccac	teggegeeeg	cacccccacc	catactttca	2580
geeegeeeaa	cogogoacog	gegeaeegge	coggogooog	ageceeegee	gagetttggt	2640
tgtttccttg	agateagetg	egeegeegae	cgggaccgcg	ggaggaacgg	gacgittegt	2040
tcttcggccg	ggagagtctg	gggcgggcgg	aggaggagac	gcgtgggaca	ccgggctgca	2700
qqccaqqcqq	ggaacggccg	ccgggacctc	cggcgccccg	aaccgctccc	aactttcttc	2760
cctcactttc	cccacccaac	tacacaaaat	cggcgtcagt	gggcgaaagc	cagatactag	2820
tagagagata	aaaccaaaat	cccacacata	cgccccgcgc	tgtcttccca	aaacacaaca	2880
Lgggcgcccg	9990099990	cccgcacgcg	apadagaga	aggaggagta	gagtgtttag	2940
gggteetgge	gegeaeeega	ggggcgggcg	ctgcccaccc	gccgagaccg	cactgettag	2010
ggaagctgag	gaaggaaccc	aaaaatacag	cctcccctcg	gaccccgcgg	gacaggcggc	3000
tttctgagag	gacctccccg	cctccgccct	ccgcgcaggt	ctcaaactga	agccggcgcc	3060
caccaaccta	accccaaccc	ctctccaqqt	ccccgcgatc	ctcqttcccc	agtgtggagt	3120
addaddatad	acctaggagg	taggagaact	cgtctaccac	cacctacaac	tcccaaaaaa	3180
cgcagccccg	accegggage	agtttggtgg	ttggcaaaag	acsaataaa	tecaseeee	3240
gggrggrgcr	ggeggeggee	agetteeteg	ccggcaaaag	904990999	teegaccege	2240
cccttgggcg	cagaccccgg	ccgctcgcct	cgcccggtgc	gecetegtet	tgeetateea	3300
agagtgcccc	ccacctcccg	gggaccccag	ctccctcctg	ggcgcccgcg	ccgaaagccc	3360
caggetetee	ttcgatggcc	gcctcgcgga	gacgtccggg	tctgctccac	ctgcagccct	3420
traatracac	chagacttca	caataaaaca	ggacgcggct	atccaaccac	tacaaaaaaa	3480
coggeogege	atattaaaaa	assacacaa 235232222	aagcagagct	catectaace	aacaccatgg	3540
gategeggga	buckligageg	gaageceegg	tastasasa	aaaaaaaatt	+a+++a++a	3600
tgtttcaaaa	tggggctcac	agcaaacttc	tcctcaaaac	eeggagaett	terrerrag	3600
atgtctcttt	ttgctgtttg	aagaatttga	gccaaccaaa	atattaaacc	tgtcttacac	3660
acacacacac	acacacacac	acacacacac	cggattgctg	tccctggttc	aagtgtgcca	3720
agtgtggaga	cagaacatga	acaaatctaa	cttcgtgact	accgaccata	aacccacttg	3780
20200000	catacettaa	aaggtttaat	tgcacaattc	caaccttgag	ctacacaaat	3840
acayyyyaaa	catgettegg	ttastattas	tatasttaaa	ttaaaaaatt	aggetttggt	3000
tccaagagcc	aggecegtae	ttgetgttga	tgtcattggc	LLggggagtt	ggggcccggc	3200
gcccagcgcg	gtcgttgggg	gagggcaag	gcatagaaca	gtggttccca	gacettgetg	3960
cacattggaa	ttacctggga	ttaaaaaaaa	aaaaatcaaa	acaaaaacca	gtgtctggct	4020
cccacccca	gacattctga	tttaattqqc	atggggcaag	acctggactt	gggattttt	4080
ttaatootot	tcatctcatc	tattaaacaa	ccagatttgg	ggatcactag	acqqaaqaaq	4140
	et et eegedee	otattoatta	ggaatggtaa	gaaatattta	accatcto	4200
gattgttaaa	gcccccggag	acgulactig	ccaatgctaa	gageceeeg	aggacacccg	4260
gaattgttac	aatattgcca	aatataggaa	agagggaaaa	ggtagagtgt	gattecaata	4260
ataaaggatt	ccgcttttca	ttgaaggaac	tggtggaaag	gtttcttctc	tgctgagcct	4320
gcagacccat	cctgcctgcc	tggggtgccc	gggagacgcg	ggcctgctcc	ggagactgct	4380
gactgccagt	cctattaata	aggtatcage	cctgtctctg	ccqaaqaqac	tcttctctt	4440
2400900990	22222222	======================================	aagcatcact	tttctccctc	cattagtatt	4500
accidation	aaacccccag	agcaccacca	angeaceace	2000000000	ttattaataa	4560
ctcattcttt	gatgttactt	gtttgaacac	cactattagt	agruggagat	Ligiticitya	4500
gaaaaatata	aataccactt	aatttgcctg	tttgtcccgc	attcactcaa	aacagaatgc	4620
tcctgaagac	aagagagaga	gtaggagaac	agacgctatt	ccattacagt	aacataaaag	4680
actggatttt	caggggggaaa	ttattaaaat	aggagatgag	ctcttttaac	agaaatttqt	4740
ttaagggggt	tatatatasa	atteantone	tttattcaa	gatggagttt	atttaataaa	4800
ccaaggeerg	aattataa	gatestasst	tctagacttg	atactattea	addtaatdad	4860
agttttgttt	ggittetggga	Catgoraact		anhanar'	aggraatgat	4000
tgccagacac	catttcatga	gtcctaatcc	ccacattaag	cataagaggt	gcacactete	4740

ctccta gcagac	tggg ggaaactgag ggga	gtacgaagaa	ctaaagtga	c tttcccacag	ctggtgggag	4980 4990
<210> ° <211> <212> <213>	20	nce				
	Description of A Primer	rtificial s	Sequence:	Synthetic		
<400> gttcca	3 ctgt tgtgcttccc		1			20
<210><211><212><213>	20	ence				
<220> <223>	Description of A	artificial :	Sequence:	Synthetic		
<400> aagaaa	4 agttg ggagcggttc			:		20
<210><211><211><212><213>	19	ence		4 4 2	. 1	-
<220> <223>	Description of A	Artificial	Sequence:	Synthetic	•	٠
<400> gggtgg	5 gactt gccaaagga				,	19
<210><211><211><212><213>	20	ence				
<220> <223>	Description of A	Artificial	Sequence:	Synthetic		
<400> cttaga	6 agcca gcgtcggata					20
<210><211><211><212><213>	20	ence				
<220> <223>	Description of A	Artificial	Sequence:	Synthetic		

Primer

<400> gcatga	7 acttc aacgcacagt	•			20
<210><211><211><212><213>	20				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400>	8			•	
	aagt gtcccactgc				20
<210><211><212><212><213>	20	,			•
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400> tcggad	9 cttta gagcaccacc				20
<210><211><211><212><213>	20	٠			
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400> gaggag	10 ggaga atgcgaggag				20
<210><211><211><212><213>	21				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400> aaatt	11 aactc ctcagggcac c				21
<210><211><212><212>	20				

	Description of Artificial Sequence: Synthetic Primer	
<400> cgccct	12 tacc tttctttcc	20
<210><211><212><213>	20	
	Description of Artificial Sequence: Synthetic Primer	
<400> ccctga	13 actcc gtccagtatt	20
<210><211><211><212><213>	20	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> cgtcct	14 Ettec tgtttcettg	20
<210><211><212><213>	20	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> accago	15 ctgtg ggaaagtcac	20
<210><211><212><213>	20	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> agacga	16 agttc tcccagctcc	20
<210><211><212>	20	

<213>	Artificial Sequence				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400> gcgcag	17 gtct caaactgaag				20
<210><211><212><212><213>	20				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400>	18				
ggagaa	igttt gctgtgagcc				20
<210><211><211><212><213>	19				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		*
<400> ccctc	19 tett geetateea				19
<210><211><211><212><213>	20				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic	•	
<400> agtgal	20 cece aaatetgget				20
<210><211><211><212><213>	20				
<220> <223>	Description of Artificial Primer	Sequence:	Synthetic		
<400> ggcata	21 agaac agtggttccc				20
<210>	22			•	

<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic	
12207	Primer	
	FITHEL	
400		
<400>		
gaacac	ccaat ggagggagaa	20
	•	
<210>	23	
<211>	20	
<212>		
	Artificial Sequence	
<213/	Artificial bequence	
000		
<220>		
<223>	Description of Artificial Sequence: Synthetic	
	Primer	
<400>	23	
tgaago	gaact ggtggaaagg	20
J. J.		
<210>	24	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic	
	Primer	
	TTTMOT	
<400>	24	
		20
catyti	cccag aaccaaacaa	20
<210>	25	
<211>	28	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: Synthetic	
<223>		
	Primer	
<400>	25	
ccacco	ggtac cggcggccgc tggccttg	28
<210>	26	
<211>		
<212>		
<7T3>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic	
	Primer	
	•	
<400>	26	
	agaca cgcccttacc ttt	23

<210>	27			
<211>	25 -		•	
<212>	DNA	,		
<213>	Artificial Sequence		,	
	•		•	
<220>				
<223>	Description of Artificial	Sequence:	Synthetic	
	Primer	-		
<400>	27		·	
			2!	_
gcagco	tccg cccccgcac ggtgt		2;	5
			•	
<210>				
<211>				
<212>				
<213>	Artificial Sequence			
<220>				
<223>	Description of Artificial	Sequence:	Synthetic	•
	Primer	-	• • • • • • • • • • • • • • • • • • •	
<400>	28			
	rtgcg gggggcggag gctgc		2.5	5
acacce	icaca aaaaacaaaa accac	*	2.	_
•				
<210>	•			
<211>				
<212>				
<213>	Artificial Sequence			
<220>			•	
<223>	Description of Artificial	Sequence:	Synthetic	
	Primer			
<400>	29			
	tccg cccccgcac ggtgt		25	5
gougo	seeeg eeeeeegeae ggege	i.		_
	•			
.010.	3.0			
<210>				
<211>				
<212>				
<213>	Artificial Sequence			
<220>			·	
<223>	Description of Artificial	Sequence:	Synthetic	
	Primer			
<400>	30		•	
acacco	rtgcg gggggggag gctgc		25	5
	,			
<210>	21			
<211>				
<212>				
<213>	Artificial Sequence			
<220>		_		
<223>	Description of Artificial	Sequence:	Synthetic	
	Primer			
<400>	31			

gcagco	ctect ecceegeac ggtgt	25
<210><211><211><212><213>	25	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> acacco	32 gtgcg gggggaggag gctgc	25
<210><211><211><212><213>	25	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> gcagco	33 etcet ceccegeae ggtgt	25
<210><211><211><212><213>	25	. :
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> acacco	34 gtgcg gggggaggag gctgc	25
<210><211><211><212><213>	22	
<220> <223>	Description of Artificial Sequence: Synthetic Primer	
<400> attcga	35 ategg ggegggega ge	22
<210><211><211><212><213>	22 .	
<220> <223>	Description of Artificial Sequence: Synthetic	

<400>	36	
gctcg	cccg cccgatcga at	22
.010	, , , , , , , , , , , , , , , , , , ,	
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic	
	Primer	
<400>		
attcga	atogg ggogggggga go	22
•		
<210>	38	
<211>	T T	
<212>	•	
	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: Synthetic	
	Primer	
<400>	38	
gctcgc	ecceg cecegatega at	22